

For Research Use Only

HDAC4 Polyclonal antibody

Catalog Number: 17449-1-AP

Featured Product

35 Publications



Basic Information

Catalog Number:

17449-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11572

GenBank Accession Number:

BC039904

GeneID (NCBI):

9759

UNIPROT ID:

P56524

Full Name:

histone deacetylase 4

Calculated MW:

972 aa, 106 kDa

Observed MW:

119-140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ChIP

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Jurkat cells, HEK-293T cells, HeLa cells

IP : HeLa cells,

IHC : human kidney tissue, human cervical cancer tissue

IF-P : mouse liver tissue,

Background Information

HDAC4, also named as HDACA, belongs to the histone deacetylase family. HDAC4 is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. HDAC4 is involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D. This antibody is a rabbit polyclonal antibody raised against an internal region of human HDAC4. The calculated molecular weight of HDAC4 is 106 kDa, but modified HDAC4 is about 140 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Aiwen Jiang	34694913	Mol Cell Biol	WB
Bin He	30443188	Int J Biol Sci	WB
Wanxin Shi	33019979	Biochem Biophys Res Commun	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

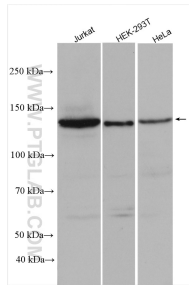
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

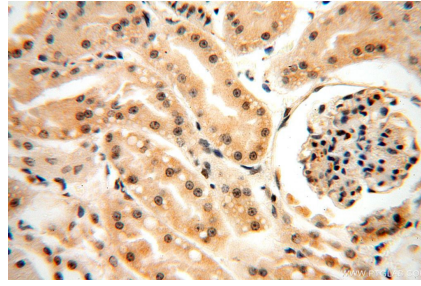
E: proteintech@ptglab.com
W: ptglab.com

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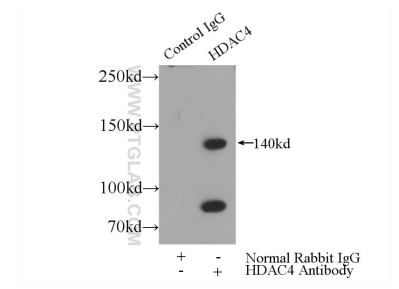
Selected Validation Data



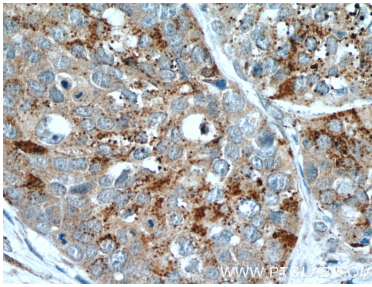
Various lysates were subjected to SDS PAGE followed by western blot with 17449-1-AP (HDAC4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



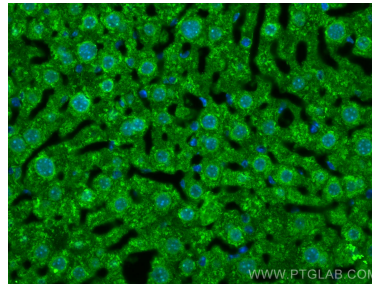
Immunohistochemical analysis of paraffin-embedded human kidney using 17449-1-AP (HDAC4 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-HDAC4 (IP:17449-1-AP, 4ug; Detection:17449-1-AP 1:500) with HeLa cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 17449-1-AP (HDAC4 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using HDAC4 antibody (17449-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).